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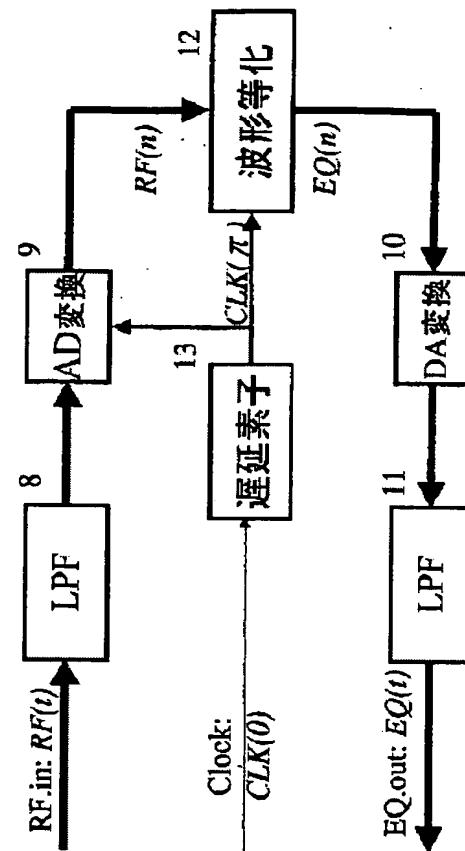
APPLICATION DATE : 05-04-01
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APPLICANT : SONY CORP;

INVENTOR : IDE NAOKI;

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TITLE : AMPLITUDE LIMITED WAVEFORM EQUALIZER WITH NARROWED AMPLITUDE LIMIT



ABSTRACT : PROBLEM TO BE SOLVED: To provide an amplitude limited waveform equalizer capable of performing waveform equalization processing by making an amplitude limitation width narrower than that of the prior art while keeping a noise suppression effect attendant on waveform equalization of a reproduced signal.

SOLUTION: By shifting the phase of a clock CLK for sampling the reproduced signal RF in synchronization with the reproduced signal by a half cycle of the clock relative to the phase permitting to sample zero-crossing, the reproduced signal RF is limited by an upper limit and a lower limit having a narrower width than the conventional width which is set by signal values at two points in time approximately a half clock before and after the zero-crossing time. The upper and lower limits are obtained from two signal values of the digitized reproduced signal before and after the zero-crossing point.

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